

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

Claims 1-21 (Cancelled)

22. (Previously Presented) A PCMCIA-sized card suitable for connection to a portable computer comprising a radio transceiver within the card capable of processing radio communications, the transceiver comprising a receiver including:

a down converter arranged to convert RF communication signals to IF communication signals;

a first IF bandpass filter capable of passing a first band of frequencies; and

a second IF bandpass filter capable of passing a second band of frequencies different from the first band of frequencies.

23. (Previously Presented) The card of claim 22 wherein the radio transceiver is arranged to transmit and receive spread spectrum radio frequency communications.

24. (Previously Presented) The card of claim 22 wherein the radio transceiver is capable of processing radio communications according to a first protocol used for communications and also is capable of processing radio communications according to a second protocol used for communications.

25. (Previously Presented) The card of claim 24 wherein the first protocol is used for communications in a first frequency range and wherein the second protocol is used for communications in a second frequency range different from the first frequency range.

26. (Previously Presented) The card of claim 25 wherein the second frequency range includes 2.4 GHz.

27. (Previously Presented) The card of claim 22 and further comprising a metallic shield adjacent the card arranged to provide electromagnetic shielding for the radio transceiver.

28. (Previously Presented) The card of claim 22 wherein the portable computer comprises a laptop computer.

29. (New) A PCMCIA-sized card suitable for connection to a portable wireless communications device, the card comprising a wireless radio frequency (RF) transceiver that is configured to support wireless spread spectrum communications, the wireless RF transceiver comprising a receiver that comprises a down converter, a first intermediate frequency (IF) bandpass filter and a second IF bandpass filter, the down converter being configured to convert RF communication signals into IF communication signals, the first IF bandpass filter being

configured to pass a first band of frequencies, the second IF bandpass filter being configured to pass a second band of frequencies different from the first band of frequencies.

30. (New) The card of claim 29, wherein the wireless spread spectrum communications comprises communications that employ frequency hopping.

31. (New) The card of claim 29, wherein the wireless spread spectrum communications comprises direct sequence spread spectrum communications.

32. (New) The card of claim 29, wherein the wireless spread spectrum communications comprises communications that employ code spreading.

33. (New) The card of claim 29, wherein the portable wireless communications device supports direct sequence spread spectrum communications and frequency hopping.

34. (New) The card of claim 29, wherein the portable wireless communications device supports a plurality of spread spectrum communication modes.

35. (New) The card of claim 29, wherein the portable wireless communications device supports wireless local area network communications.

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36. (New) The card of claim 29, wherein the portable wireless communications device supports cell-based network communications.

37. (New) The card of claim 36, wherein the portable wireless communications device comprises a hand-held wireless communications device.

38. (New) The card of claim 36, wherein the portable wireless communications device comprises a roaming wireless communications device.

39. (New) The card of claim 29, wherein the portable wireless communications device is battery powered.

40. (New) The card of claim 29, wherein the portable wireless communications device provides spanning tree routing.

41. (New) The card of claim 29, wherein the portable wireless communications device supports on-off keying.

42. (New) The card of claim 29, wherein the wireless RF transceiver is capable of

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processing radio communications according to a first communications protocol and is capable of processing radio communications according to a second communications protocol.

43. (New) The card of claim 42, wherein the first communications protocol is used for communications in a first frequency range, and wherein the second communications protocol is used for communications in a second frequency range that is different from the first frequency range.

44. (New) The card of claim 43, wherein a frequency of 2.4 GHz is part of the second frequency range.

45. (New) The card of claim 29, wherein the portable wireless communications device comprises a metallic shield that is adjacent the card and that provides electromagnetic shielding for the wireless RF transceiver.

46. (New) The card of claim 29 wherein the portable wireless communications device comprises a laptop computer.